


**PRESSURE SENSITIVE SCROLLBAR FEATURE**

**Patent number:** WO9718508  
**Publication date:** 1997-05-22  
**Inventor:** ALLEN TIMOTHY P; GILLESPIE DAVID; FERRUCCI AARON T  
**Applicant:** SYNAPTICS INC (US)  
**Classification:**  
- **International:** G06F3/033  
- **European:** G06F3/033D2, G06F3/033A1S2  
**Application number:** WO1996US17862 19961106  
**Priority number(s):** US19950558114 19951113

**Also published as:**

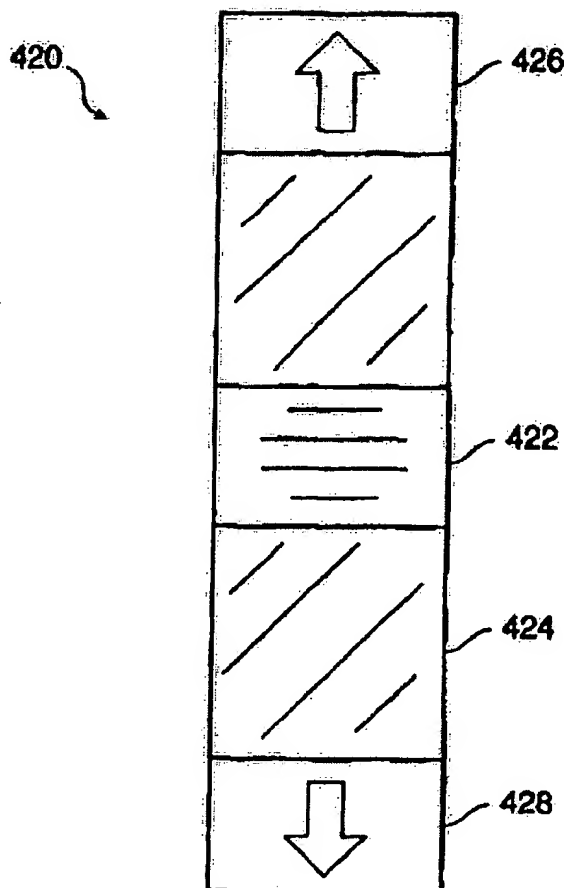
 EP0861462 (A1)

**Cited documents:**

 EP0394614

**Abstract of WO9718508**

A proximity sensor system includes a sensor matrix array having a characteristic capacitance on horizontal and vertical conductors connected to sensor pads. The capacitance changes as a function of the proximity of an object to the sensor matrix. The change in capacitance of each node in both the X and Y directions of the matrix due to the approach of an object is converted to a set of voltages in the X and Y directions. These voltages are processed by circuitry to develop electrical signals representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. Noise reduction and background level setting techniques inherently available in the architecture are employed. Pressure information is used to modify the scrolling speed.



Data supplied from the esp@cenet database - Worldwide

Best Available Copy